



Fraunhofer

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Employees 420

Founded (year) 1984

With about 420 employees, the Fraunhofer Institute for Laser Technology ILT is an internationally recognized research institute in the sector of laser research and applications. The activities cover a wide range of areas such as the development of new laser beam sources and components, laser based metrology and industrial laser processes. Furthermore, process studies and the development of prototype tools for biomedical applications are pursued. Therein the development of the laser-based tools for biofabrication and biofunctionalization are main activities. Photon-based processes like multiphoton polymerization or stereo lithography are employed to fabricate 3D scaffolds for cell co-cultures. UV-induced surface functionalization is employed to bind biomolecules onto scaffold materials. The selection and precise transfer of single living cells by laser beams has been demonstrated with the LIFTSYS® prototype tool. Investigations of laser surgical procedures or development of instrumentation for laser surgery are performed in cooperation with clinical partners.